

Abstract

Method for recirculating a partial exhaust gas flow to an internal combustion engine of a motor vehicle

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In the method, the partial flow is guided through a partial flow line (2) connected downstream of the exhaust gas outlet (1a) of the internal combustion engine (1), and is immediately thereafter supplied to the internal combustion engine (1)

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either via a first valve (3), a bypass line (5) which is connected directly downstream and a recirculation line (7).

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Alternatively, the partial exhaust gas flow can be supplied to the internal combustion engine via a second valve (4), a radiator (6) which is connected directly downstream and a recirculation line (7). The first valve (3) and the second valve (4) are opened or closed as a function of the exhaust gas conditions, this being monitored by a sensor (8). A device for carrying out the method is also a subject of the invention.

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Fig.